

DERWENT-ACC-NO: 1983-764471

DERWENT-WEEK: 198337

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TITLE: Overhead power line tensioning device - has hermetic strong box filled with inert gas mounted inside housing between movable rod flanges as compensator

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PRIORITY-DATA: 1981SU-3230592 (January 5, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 974483 A	November 15, 1982	N/A	003	N/A

INT-CL (IPC): H02G007/02

ABSTRACTED-PUB-NO: SU 974483A

BASIC-ABSTRACT:

Device is attached to constr. support by one of the rods (11) and by another to insulator string of transmission line without any obstacle to loop conductor into adjacent span. The conductors are tensioned in the span at definite calculated values, with box (7) bellows compressed to a limit and screw (3) occupying centre position in the housing (1) longitudinal cut-out (2); besides tensioning in span (T) is balanced by a force F, determined by pressure in the bellow casing.

Increase in temp. disrupts the balance of forces F1 and T1, (F1 exceeds T1), but the bellows start to squeeze, displacing rods (5) inside the device, which shortens as the rods move and the conductor in span pulls-up, and tension T1 increases until the balance is again maintained. Temp. decrease as well momentarily and temporarily upsets the balance of forces, which will be maintained as the rods (5) extend, weakening conductor and compressing the

bellows. Bul.42/15.11.82

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: OVERHEAD POWER LINE TENSION DEVICE HERMETIC
STRONG BOX FILLED
INERT GAS MOUNT HOUSING MOVE ROD FLANGE COMPENSATE

DERWENT-CLASS: X12

EPI-CODES: X12-G05;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1983-163871